

=> FILE REG
FILE 'REGISTRY' ENTERED AT 10:45:52 ON 10 JUL 2009
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FILE 'REGISTRY' ENTERED AT 10:33:23 ON 10 JUL 2009
E EPIFLUOROHYDRIN/CN
L1 1 S E3
E EPICHLOROHYDRIN/CN
L2 1 S E3
E EPIBROMOHYDRIN/CN
L3 1 S E3
E EPIIODOHYDRIN/CN
L4 1 S E3
E DIMETHYLAMINOPROPYLAMINE/CN
L5 1 S E4
L6 1 S 109-55-7
L7 577 S 109-55-7/CRN
E BENZYLAMINE/CN
L8 1 S E3
L9 1606 S 100-46-9/CRN
L10 4 S L1 OR L2 OR L3 OR L4
SEL L10 1-4 RN
EDIT E1-E4 /BI /CRN
L11 28546 S E1-E4
L12 1 S L11 AND L7 AND L9

FILE 'ZCA' ENTERED AT 10:41:40 ON 10 JUL 2009
L13 2 S L12
L14 20284 S L10
L15 4775 S L6
L16 23313 S L8
L17 7 S L14 AND L15 AND L16
L18 10121 S L10 (L) RACT/RL
L19 2918 S L6 (L) RACT/RL
L20 18908 S L8 (L) RACT/RL
L21 5 S L18 AND L19 AND L20
L22 9 S L13 OR L17 OR L21
L23 6 S 1808-2004/PY, PRY, AY AND L22

=> FILE ZCA
FILE 'ZCA' ENTERED AT 10:45:57 ON 10 JUL 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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=> D L23 1-6 ALL HITSTR

L23 ANSWER 1 OF 6 ZCA COPYRIGHT 2009 ACS on STN
AN 142:263510 ZCA Full-text
ED Entered STN: 24 Mar 2005
TI Surface treatment of semifinished leather with cationic or
amphoteric polymers
IN Wolf, Gerhard; Hueffer, Stephan; Reese, Oliver; Decker, Juergen;
Igl, Georg; Schroeder, Stefan; Scherr, Guenter
PA BASF Aktiengesellschaft, Germany
SO PCT Int. Appl., 20 pp.
CODEN: PIXXD2
DT Patent
LA German
IC ICM C14C011-00
ICS D06P001-607
CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2005017210	A1	20050224	WO 2004-EP8607	200407 30

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MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD,
SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
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AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ,
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GW, ML, MR, NE, SN, TD, TG

DE 10336453	A1	20050303	DE 2003-10336453 200308 06
EP 1651782	A1	20060503	EP 2004-763684 200407 30
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PRAI DE 2003-10336453 A 20030806 <--
 WO 2004-EP8607 W 20040730 <--

OS MARPAT 142:263510

AB The surface of semifinished leather is treated with a cationic or amphoteric aq. treating agent, e.g., an amine-epichlorohydrin copolymer by roll coating, roller application, and/or spraying and the leather is then treated with an anionic agent, e.g., a dye, fatliquoring agent or after-tanning agent, in a drum. The procedure serves to improve leather fastness, to produce 2-color effect on leather, to reduce dye consumption, etc.

ST semifinished leather surface treatment cationic water soluble polymer; benzylamine dimethylaminopropylamine epichlorohydrin copolymer semifinished leather surface treatment

IT Polyelectrolytes
 (amphoteric; treatment of semifinished leather surfaces with cationic polymers or)

IT Polyelectrolytes
 (cationic; treatment of semifinished leather surfaces with amphoteric polymers or)

IT Leather
 (finishing; treatment of semifinished leather surfaces with cationic or amphoteric polymers)

IT 841312-89-8P, Benzylamine-N,N-dimethyl-1,3-propanediamine-Epichlorohydrin copolymer
 RL: IMF (Industrial manufacture); TEM (Technical or engineered

material use); PREP (Preparation); USES (Uses)
(treatment of semifinished leather surfaces with cationic or
amphoteric polymers)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

- (1) Anon; PATENT ABSTRACTS OF JAPAN 1998, V1998(04)
- (2) Benckiser Knapsack Gmbh; DE 3530478 A 1987 ZCA
- (3) Buckman Labor Inc; DE 2616220 A 1976 ZCA
- (4) Nikka Chem Co Ltd; JP 9324372 A 1997
- (5) White, G; GB 419941 A 1934 ZCA

IT 841312-89-8P, Benzylamine-N,N-dimethyl-1,3-propanediamine-
Epichlorohydrin copolymer
RL: IMF (Industrial manufacture); TEM (Technical or engineered
material use); PREP (Preparation); USES (Uses)
(treatment of semifinished leather surfaces with cationic or
amphoteric polymers)

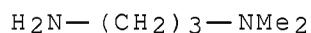
RN 841312-89-8 ZCA

CN 1,3-Propanediamine, N,N-dimethyl-, polymer with benzenemethanamine
and (chloromethyl)oxirane (9CI) (CA INDEX NAME)

CM 1

CRN 109-55-7

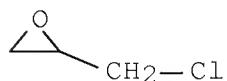
CMF C5 H14 N2



CM 2

CRN 106-89-8

CMF C3 H5 Cl O



CM 3

CRN 100-46-9

CMF C7 H9 N

H₂N—CH₂—Ph

L23 ANSWER 2 OF 6 ZCA COPYRIGHT 2009 ACS on STN
AN 142:221588 ZCA Full-text
ED Entered STN: 10 Mar 2005
TI Epichlorohydrin amine polymers used for treating the surface of leather.
IN Wolf, Gerhard; Hueffer, Stephan; Decker, Juergen; Scherr, Guenter; Reese, Oliver
PA BASF Aktiengesellschaft, Germany
SO PCT Int. Appl., 18 pp.
CODEN: PIXXD2
DT Patent
LA German
IC ICM C08G059-10
ICS C14C003-22
CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005014687	A1	20050217	WO 2004-EP8873	200408 06

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KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD,
SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,
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GW, ML, MR, NE, SN, TD, TG

DE 10336452	A1	20050303	DE 2003-10336452	200308 06
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EP 1651699	A1	20060503	EP 2004-763901	
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EP 1651699	B1	20070110		
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CN 100379787	C	20080409		
BR 2004013268	A	20061010	BR 2004-13268	
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ES 2279420	T3	20070816	ES 2004-763901	
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US 20090094758	A1	20090416	US 2006-566375	
				200601
				30
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PRAI DE 2003-10336452	A	20030806	<--	
WO 2004-EP8873	W	20040806	<--	
AB An aq. soln. of an epichlorohydrin amine polymer (prepd. by reacting ≥2 amines with ≥1 epichlorohydrin deriv.) at amine/epichlorohydrin ratios (0.8:1.2) - (1.0:1.0) is used for treating the surface of semifinished leather products and textile materials. A typical example of such copolymer prep. by reacting 1,020 g of dimethylaminopropylamine, 267.5 g of benzylamine and 931 mL of epichlorohydrin in 1,519.1 g of water 2 h at 85° exhibits a solid content 21%, viscosity 32 mPa s and chloride content 1.19 mmol/g.				
ST aq soln epichlorohydrin amine polymer surface treating leather textile; dimethylaminopropylamine benzylamine epichlorohydrin polymer manuf				
IT Fabric finishing (aq. soln. of an epichlorohydrin amine polymer for treating the surface of semifinished leather products and textile materials)				
IT Leather (finishing; aq. soln. of an epichlorohydrin amine polymer for treating the surface of semifinished leather products and textile materials)				
IT 841312-89-8P				
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)				

(aq. soln. of an epichlorohydrin amine polymer for treating the surface of semifinished leather products and textile materials)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Buckman Labor Inc; EP 0431739 A 1991 ZCA
- (2) Buckman Labor Inc; WO 9728687 A 1997 ZCA
- (3) Canon Kk; EP 0738608 A 1996 ZCA
- (4) Dixon, K; US 3738945 A 1973 ZCA
- (5) Ray-Chaudhuri, D; US 3573095 A 1971

IT 841312-89-8P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(aq. soln. of an epichlorohydrin amine polymer for treating the surface of semifinished leather products and textile materials)

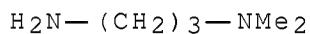
RN 841312-89-8 ZCA

CN 1,3-Propanediamine, N,N-dimethyl-, polymer with benzenemethanamine and (chloromethyl)oxirane (9CI) (CA INDEX NAME)

CM 1

CRN 109-55-7

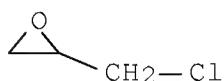
CMF C5 H14 N2



CM 2

CRN 106-89-8

CMF C3 H5 Cl O



CM 3

CRN 100-46-9

CMF C7 H9 N

H₂N—CH₂—Ph

L23 ANSWER 3 OF 6 ZCA COPYRIGHT 2009 ACS on STN
AN 140:42160 ZCA Full-text
ED Entered STN: 15 Jan 2004
TI Preparation of naphthyridines as antibacterial compounds
IN Anderson, David; Beutel, Bruce; Bosse, Todd D.; Clark, Richard;
Cooper, Curt; Dandliker, Peter; David, Caroline; Gu, Yu-Gui; Hansen,
Todd Matthew; Hinman, Mira; Kalvin, Douglas; Larson, Daniel P.;
Lynch, Linda; Ma, Zhenkun; Motter, Christopher; Palazzo, Fabio;
Rosenberg, Teresa; Rehm, Tamara; Sanders, William; Tufano, Michael;
Wagner, Rolf; Weitzberg, Moshe; Yong, Hong; Zhang, Tianyuan
PA USA
SO U.S. Pat. Appl. Publ., 118 pp.
CODEN: USXXCO
DT Patent
LA English
IC ICM A61K031-541
ICS A61K031-5377; A61K031-519; A61K031-496; A61K031-4745;
C07D471-02
INCL 514228200; 514234200; 514269000; 514253040; 514253030; 514300000;
544060000; 544127000; 544262000; 546123000
CC 28-2 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1, 10, 33, 63
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20030232818	A1	20031218	US 2003-387318	200303 12
	CA 2518443	A1	20040930	CA 2003-2518443	200303 12
WO	2004083207	A1	20040930	WO 2003-US7689	200303 12

W: CA, JP, MX
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
IE, IT, LU, MC, NL, PT, SE, SI, SK, TR

EP 1631570

A1

20060308

EP 2003-723732

200303

12

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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
PT, IE, SI, FI, CY, TR, BG, CZ, EE, HU, SK

JP 2006514964

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JP 2004-569641

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PRAI US 2002-363594P

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US 2003-387318

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WO 2003-US7689

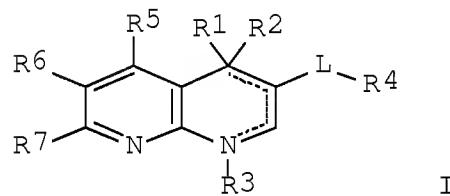
W

20030312

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OS MARPAT 140:42160

GI



I

AB The title compds. [I; one of R1 and R2 is absent or H, and the other = H, OH, NMe₂, (un)substituted NH₂; or R1 and R2 together = O; R3 = absent, alkyl, CH₂CF₃, OCH₂CH:CH₂, etc.; L = a bond, CO, (CH₂)_m (wherein m = 1-5); R4 = H, aryl, NH₂, OH, etc.; R5 = H, alkyl, aryl, halo, etc.; R6 = H, halo, alkyl, CN, etc.,; or R5 and R6 taken together = (un)substituted alkylene, heteroalkylene; R7 = halo, aryl, heteroaryl, etc.], useful for prophylaxis and treatment of bacterial infections, were prep'd. E.g., a multi-step synthesis of 7-[(3R)-3-aminopyrrolidin-1-yl]-6-fluoro-5-methyl-4-oxo-1,4-dihydro-1,8-naphthyridine-3-carboxylic acid, starting from 2,6-dichloro-5-fluoronicotinic acid (no data for intermediates), was given. The compds. I showed IC₅₀ values in the range 0.01-40 μM against bacterial protein synthesis in S30 Streptococcus pneumoniae assay. The compns. comprising the compd. I were claimed.

ST naphthyridine prepn antibacterial

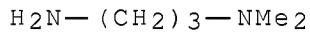
IT Infection

(bacterial; prepn. of naphthyridines as antibacterial compds.)

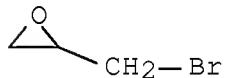
IT Antibacterial agents
(prepn. of naphthyridines as antibacterial compds.)
IT 100-46-9, Benzylamine, reactions 109-55-7,
N,N-Dimethyl-1,3-propanediamine 3132-64-7, Epibromohydrin
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of naphthyridines as antibacterial compds.)
RN 100-46-9 ZCA
CN Benzenemethanamine (CA INDEX NAME)



RN 109-55-7 ZCA
CN 1,3-Propanediamine, N1,N1-dimethyl- (CA INDEX NAME)



RN 3132-64-7 ZCA
CN Oxirane, 2-(bromomethyl)- (CA INDEX NAME)



L23 ANSWER 4 OF 6 ZCA COPYRIGHT 2009 ACS on STN
AN 135:226873 ZCA Full-text
ED Entered STN: 04 Oct 2001
TI Preparation and formulation of azetidines for pharmaceutical use
IN Achard, Daniel; Bouchard, Herve; Bouquerel, Jean; Filoche, Bruno;
Grisoni, Serge; Hittinger, Augustin; Myers, Michael
PA Aventis Pharma S.A., Fr.
SO PCT Int. Appl., 249 pp.
CODEN: PIXXD2
DT Patent
LA French
IC ICM C07D205-04
ICS C07D205-06; C07D403-10; C07D403-04; C07D409-14; C07D403-14;
C07D409-06; C07D401-12; C07D409-12; C07D401-06; C07D403-06;

A61K031-397; A61P025-00

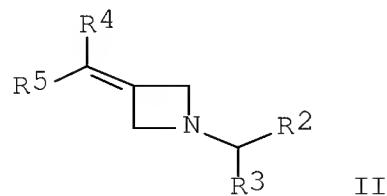
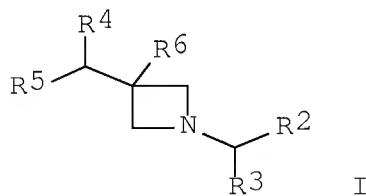
CC 27-5 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): 1, 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001064632	A1	20010907	WO 2001-FR600	200103 01
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US 2000-200399P	P	20000427	<--	<--
WO 2001-FR600	W	20010301	<--	<--
US 2001-798072	A1	20010302	<--	<--
US 2002-242575	A1	20020912	<--	<--
OS MARPAT 135:226873				
GI				



AB Azetidines, such as I and II [R2, R3 = aryl, heteroaryl; R4 = alkyl, arylalkyl, cycloalkyl, heteroaryl, heteroarylalkyl, etc.; R5 = H, acyl, alkylsulfonyl, carboxyl, carboxamido, etc.; R6 = H, CN, alkylamino, alkylthio, etc.], were prep'd. for use as pharmaceuticals

with potential usefulness in treating conditions such as neurol. disorders, cancer, immunol. disorders, and substance abuse. Thus, I (R2 = R3 = C6H4-4-Cl, R4 = SO2Me, R5 = C6H3-3,5-F2, R6 = H) was prep'd. via a multistep synthetic sequence starting from MeSNa, BrCH2C6H3-3,5-F2, BrCH(C6H4-4-Cl)2, and 1-(diphenylmethyl)-3-azetidinone. Data for specific biol. activities were not given, however, pharmaceutical formulations for delivery were presented.

ST azetidine prepn pharmaceutical use

IT 359401-03-9P 359401-05-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prep'n. and formulation of azetidines for pharmaceutical use)

IT 359401-02-8P 359401-20-0P 359401-78-8P 359401-92-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prep'n. and formulation of azetidines for pharmaceutical use)

IT 75-04-7, Ethanamine, reactions 75-07-0, Acetaldehyde, reactions

75-36-5, Acetyl chloride 78-81-9 79-31-2 100-39-0

100-46-9, Benzenemethanamine, reactions 100-60-7

100-61-8, reactions 103-67-3 104-88-1, reactions 106-39-8

106-89-8, Epichlorohydrin, reactions 107-10-8,

1-Propanamine, reactions 108-00-9 108-02-1 108-86-1, reactions

108-91-8, Cyclohexanamine, reactions 109-01-3 109-55-7

109-73-9, 1-Butanamine, reactions 110-78-1 110-89-4, Piperidine,

reactions 110-91-8, Morpholine, reactions 123-75-1, Pyrrolidine,

reactions 141-43-5, reactions 288-32-4, 1H-Imidazole, reactions

345-70-0 348-61-8 461-96-1 462-08-8, 3-Pyridinamine

500-22-1, 3-Pyridinecarboxaldehyde 503-29-7, Azetidine 503-74-2

542-18-7 543-27-1 619-23-8 765-30-0, Cyclopropanamine

765-43-5 824-94-2 1003-09-4 1003-31-2, 2-Thiophenecarbonitrile

1005-56-7 1074-82-4 1759-53-1, Cyclopropanecarboxylic acid

1795-48-8 2038-03-1, 4-Morpholineethanamine 2213-43-6,

1-Piperidinamine 2516-47-4, Cyclopropanemethanamine 2637-34-5,

2(1H)-Pyridinethione 3112-90-1 3132-64-7, Epibromohydrin

3218-02-8, Cyclohexanemethanamine 3332-29-4 4556-23-4,

4-Pyridinethiol 4595-59-9 4795-29-3 5130-24-5 5267-41-4

5452-35-7, Cycloheptanamine 5680-79-5 5813-64-9 6306-46-3

7154-73-6, 1-Pyrrolidineethanamine 7377-26-6 7663-77-6

10445-91-7 14548-48-2 18621-17-5 23100-12-1 26116-12-1

27064-94-4 31719-77-4 38945-21-0 40320-60-3 49617-83-6

52897-99-1 55263-32-6 66739-89-7 75462-59-8 105184-38-1

108499-32-7 141776-91-2 359402-91-8 359402-93-0 359402-94-1

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. and formulation of azetidines for pharmaceutical use)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Cale, A; US 4242261 A 1980 ZCA

(2) Esteve Labor Dr; EP 0406112 A 1991 ZCA

(3) Novonordisk As; WO 9701556 A 1997 ZCA

IT 100-46-9, Benzenemethanamine, reactions 106-89-8,

Epichlorohydrin, reactions 109-55-7 3132-64-7,

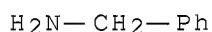
Epibromohydrin

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. and formulation of azetidines for pharmaceutical use)

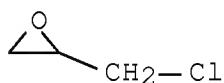
RN 100-46-9 ZCA

CN Benzenemethanamine (CA INDEX NAME)



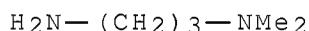
RN 106-89-8 ZCA

CN Oxirane, 2-(chloromethyl)- (CA INDEX NAME)



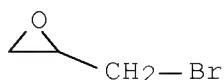
RN 109-55-7 ZCA

CN 1,3-Propanediamine, N1,N1-dimethyl- (CA INDEX NAME)



RN 3132-64-7 ZCA

CN Oxirane, 2-(bromomethyl)- (CA INDEX NAME)



L23 ANSWER 5 OF 6 ZCA COPYRIGHT 2009 ACS on STN
AN 121:186108 ZCA Full-text
OREF 121:33689a,33692a
ED Entered STN: 15 Oct 1994
TI Method for estimating the flash point and the lower explosion limits
AU Moeller, Wolfgang; Schulz, Petra; Redeker, Tammo
CS Germany
SO PTB-Ber. W - Phys.-Tech. Bundesanst. (1993), PTB-W-55,
64pp.
CODEN: PAWAD8; ISSN: 0341-6739
DT Report
LA German
CC 59-6 (Air Pollution and Industrial Hygiene)
Section cross-reference(s): 22, 23, 24, 25
AB The CHEMSAFE database and method for estg. the flash point and lower explosion limit of a no. of compds. and compd. classes was developed further. The lower explosion limit was detd. from regression anal. of data based on the stoichiometry related to the mol. formula, with an accuracy not larger than the exptl. uncertainty of measuring the lower explosion limit (.apprx.10%). Estn. of flash point was carried out by linear regression of the correlation of measured b.p. with flash point, with good accuracy for 13 compd. classes, satisfactory for 18 classes, and unsatisfactory for 12 classes.
ST safety flash point explosion limit estn; flash point estn linear regression; explosion limit estn linear regression; linear regression flash point explosion limit
IT Explosion
Flash point
(estn. of flash point and lower explosive limit of org. compds.
by regression anal. of data from CHEMSAFE database)
IT Acetals
Alcohols, properties
Alkenes, properties
Alkynes
Amides, properties
Carboxylic acids, properties
Cyanates
Cycloalkanes
Disulfides
Epoxides
Ethers, properties
Glycols, properties
Phenols, properties
Thiols, properties
RL: PRP (Properties)
(estn. of flash point and lower explosive limit of org. compds.
by regression anal. of data from CHEMSAFE database)

IT Alkadienes
RL: PRP (Properties)
(halogen-free; estn. of flash point and lower explosive limit of org. compds. by regression anal. of data from CHEMSAFE database)

IT Molecular structure-property relationship
(lower explosive limit; estn. of flash point and lower explosive limit of org. compds. by regression anal. of data from CHEMSAFE database)

IT Aldehydes, properties
Amines, properties
Ketones, properties
Nitriles, properties
RL: PRP (Properties)
(aliph., estn. of flash point and lower explosive limit of org. compds. by regression anal. of data from CHEMSAFE database)

IT Alcohols, properties
RL: PRP (Properties)
(alkoxy, estn. of flash point and lower explosive limit of org. compds. by regression anal. of data from CHEMSAFE database)

IT Alcohols, properties
Ethers, properties
RL: PRP (Properties)
(amino, estn. of flash point and lower explosive limit of org. compds. by regression anal. of data from CHEMSAFE database)

IT Alkanes, properties
RL: PRP (Properties)
(bromo, estn. of flash point and lower explosive limit of org. compds. by regression anal. of data from CHEMSAFE database)

IT Alkanes, properties
RL: PRP (Properties)
(chloro, estn. of flash point and lower explosive limit of org. compds. by regression anal. of data from CHEMSAFE database)

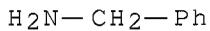
IT Carboxylic acids, properties
RL: PRP (Properties)
(di-, diesters, estn. of flash point and lower explosive limit of org. compds. by regression anal. of data from CHEMSAFE database)

IT Acetals
RL: PRP (Properties)
(ketals, estn. of flash point and lower explosive limit of org. compds. by regression anal. of data from CHEMSAFE database)

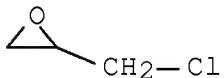
IT Alkanes, properties
Aromatic hydrocarbons, properties
RL: PRP (Properties)
(nitro, estn. of flash point and lower explosive limit of org. compds. by regression anal. of data from CHEMSAFE database)

IT Statistics and Statistical analysis
(regression, estn. of flash point and lower explosive limit of

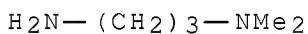
IT org. compds. by regression anal. of data from CHEMSAFE database)
Information science and technology
(system, computerized, CHEMSAFE; estn. of flash point and lower
explosive limit of org. compds. by regression anal. of data from
CHEMSAFE database)
IT 100-46-9, Benzyl amine, properties 106-89-8,
properties 109-55-7, 3-Dimethylaminopropyl amine
RL: PRP (Properties)
(estn. of flash point and lower explosive limit of org. compds.
by regression anal. of data from CHEMSAFE database)
RN 100-46-9 ZCA
CN Benzenemethanamine (CA INDEX NAME)



RN 106-89-8 ZCA
CN Oxirane, 2-(chloromethyl)- (CA INDEX NAME)

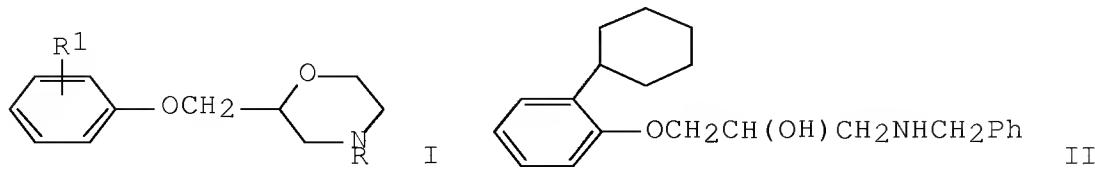


RN 109-55-7 ZCA
CN 1,3-Propanediamine, N1,N1-dimethyl- (CA INDEX NAME)



L23 ANSWER 6 OF 6 ZCA COPYRIGHT 2009 ACS on STN
AN 93:186265 ZCA Full-text
OREF 93:29691a,29694a
ED Entered STN: 12 May 1984
TI Antidepressant activity of cyclohexylphenoxyxymorpholines
AU Carissimi, M.; Picciola, G.; Ravenna, F.; Gentili, P.; Carenini, G.
CS Lab. Ric., Maggioni Farm. S.p.A., Milan, Italy
SO Farmaco, Edizione Scientifica (1980), 35(6), 504-26
CODEN: FRPSAX; ISSN: 0430-0920
DT Journal

LA Italian
CC 28-14 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 25
GI



AB 2-[(Cyclohexylphenoxy)methyl]morpholines I ($R = H$, alkyl, aminoalkyl, piperazinopropionyl or -propyl, benzoylalkyl; $R_1 = 2$ -, 3-, or 4-cyclohexyl) were prep'd. by different methods and they showed antidepressant, tranquilizer, analgesic, and spasmolytic activity; I also inhibited blood platelet aggregation. The phenoxyisopropanolamine II reacted with $ClCH_2COCl$ to yield a 2-(phenoxy)methylmorpholin-5-one, the product was reduced ($LiAlH_4$) to give a N-benzylmorpholine deriv., and hydrogenolysis of the latter gave I ($R = H$, $R_1 = 2$ -cyclohexyl).

ST morpholine phenoxy methyl prepn antidepressant; phenoxy methylmorpholine prepn antidepressant analgesic; tranquilizer phenoxy methylmorpholine prepn; spasmolytic phenoxy methylmorpholine prepn; blood platelet phenoxy methylmorpholine prepn

IT Analgesics
Antidepressants
Muscle relaxants and Spasmolytics
Tranquilizers and Neuroleptics
([(cyclohexylphenoxy)methyl]morpholines)

IT Blood platelet
(aggregation of, [(cyclohexylphenoxy)methyl]morpholines for inhibition of)

IT 55837-19-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclocondensation reaction of, with chloroacetyl chloride)

IT 79-04-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclocondensation reaction of, with isopropanolamines, morpholinones from)

IT 4491-92-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(hydrolysis of)

IT 75224-30-5P 75224-31-6P 75224-32-7P 75224-42-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT (Reactant or reagent)
(prepn. and cyclocondensation reaction of, with chloroacetyl
chloride)

IT 75224-33-8P 75224-34-9P 75224-35-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT (Reactant or reagent)
(prepn. and hydride redn. of)

IT 75224-36-1P 75224-37-2P 75224-38-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT (Reactant or reagent)
(prepn. and hydrogenolysis of)

IT 75224-39-4P 75224-40-7P 75224-41-8P 75224-46-3P 75224-48-5P
75224-52-1P 75224-53-2P 75224-54-3P 75224-55-4P 75224-57-6P
75224-58-7P 75224-59-8P 75224-60-1P 75224-62-3P
RL: BAC (Biological activity or effector, except adverse); BSU
(Biological study, unclassified); SPN (Synthetic preparation); BIOL
(Biological study); PREP (Preparation)
(prepn. and pharmacol. activity of)

IT 75224-43-0P 75224-45-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT (Reactant or reagent)
(prepn. and redn. of, by diborane)

IT 75224-29-2P 75224-61-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

IT 59695-29-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, and N-acylation of morpholine deriv. by)

IT 75224-49-6 75224-50-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(redn. of, by diborane)

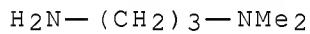
IT 119-42-6 1131-60-8 1943-95-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(ring cleavage of epichlorohydrin by, and substitution reaction
of product with benzylamine)

IT 109-55-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(ring cleavage of glycidyl ether deriv. by)

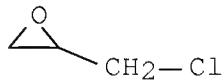
IT 106-89-8, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(ring cleavage of, by phenols, and substitution reaction of
products with benzylamine)

IT 67006-90-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(ring cleavage of, by propanediamine deriv.)

IT 100-46-9, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (substitution reaction of, with epichlorohydrin derivs.)
 IT 48183-74-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (N-acylation and N-alkylation reactions of)
 IT 22278-01-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (N-acylation of morpholine deriv. by)
 IT 3874-54-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (N-alkylation of morpholine deriv. by)
 IT 75-21-8, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (N-alkylation of piperazines by)
 IT 109-55-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (ring cleavage of glycidyl ether deriv. by)
 RN 109-55-7 ZCA
 CN 1,3-Propanediamine, N1,N1-dimethyl- (CA INDEX NAME)



IT 106-89-8, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (ring cleavage of, by phenols, and substitution reaction of
 products with benzylamine)
 RN 106-89-8 ZCA
 CN Oxirane, 2-(chloromethyl)- (CA INDEX NAME)



IT 100-46-9, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (substitution reaction of, with epichlorohydrin derivs.)
 RN 100-46-9 ZCA
 CN Benzenemethanamine (CA INDEX NAME)

H₂N—CH₂—Ph